## Index of Claims



Application No.

09/805,236 Examiner

Scott M. Collins

Applicant(s)

DEMING, DOUGLAS R.

**Art Unit** 

2145

| √ | Rejected |
|---|----------|
| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| I | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

|       | L  |                   | _         |          |              |  |            |              |  |   |             |          |          |          |          |          |          |                |          |
|-------|--|-------------------|-----------|----------|--------------|--|------------|--------------|--|---|-------------|----------|----------|----------|----------|----------|----------|----------------|----------|
| Claim |  |                   |           | [        | ate          | ;  |            |              |  |   | Cla         | im       |          |          |          | _[       | ate      | •              |          |
| Final | 20/4C/a                                      | 10/07/0           |           |          |              |  |            |              |  |   | Final       | Original |          |          |          |          |          |                |          |
| 1     | ٦,   | +                 | -         | _        |              |  |            |              |  | l |             | 51       |          |          |          |          |          |                |          |
| 2     |  |                   | 1         |          |              |  |            |              |  | ĺ |             | 52       |          |          |          |          |          |                | _        |
| 3     | 3 4  | -                 |           |          |              |  |            |              |  | [ |             | 53       |          | $\perp$  | _        |          | $\perp$  |                |          |
| 4     |  |                   |           |          |              |  |            |              |  |   |             | 54       | $\perp$  | $\perp$  |          |          |          |                | _        |
| 5     | -  | +                 | T         |          |              |  |            |              |  |   |             | 55       |          | _        | _        |          |          |                | L        |
| 6     | 3 -  | ÷                 |           |          |              |  |            |              | _  |   |             | 56       | _        | -        | _        | _        | _        |                |          |
| 7     |  | ÷                 | 1_        |          |              |  |            |              |  | - |             | 57       | _        | -+       | -        |          |          |                |          |
| 8     |  | ÷                 | _         | _        | L.           |  |            |              | _  |   |             | 58       |          | -        | -        |          | _        | -              | -        |
| 9     |  | ÷                 | _         |          |              |  |            | _            |  |   |             | 59       | -        | +        | $\dashv$ |          |          | -              | -        |
| 10    |  | ÷                 | _         | _        | _            |  |            |              | _  |   |             | 60<br>61 | $\dashv$ | -+       |          |          | _        |                | _        |
| 1     |  | <del>-</del>  -   |           | -        | -            |  |            | _            |  |   |             | 62       |          | +        | $\dashv$ |          |          | -              | H        |
| 1:    |  | ÷                 | +         | <u> </u> | _            |  |            |              |  |   |             | 63       | -        | -+       | -        | -        | _        | $\vdash$       | H        |
| 1;    |  | <del>?</del><br>÷ | +         | -        | _            | -  | _          |              |  |   |             | 64       | $\dashv$ | +        | -        |          |          |                |          |
| 1:    |  | <del>-</del>  -   | +         |          | -            |  |            |              |  |   |             | 65       | _        | $\dashv$ | $\neg$   |          |          |                | Г        |
| 10    |  | -                 | +         | -        |              | -  |            |              |  |   |             | 66       |          |          | 7        |          | _        |                | Г        |
| 1     |  | -                 | $\vdash$  | $\vdash$ | $\vdash$     |  |            |              |  |   |             | 67       | T        |          |          |          |          |                |          |
| 11    |  | ÷                 | $\dagger$ | H        |              | -  | _          |              |  |   |             | 68       |          |          |          |          |          |                |          |
| 19    |  | ÷                 | $\top$    | ┢        | T            |  | $\vdash$   |              |  |   |             | 69       |          |          |          |          |          |                |          |
| 20    |  | <del>.</del>      |           |          |              | $\vdash$   |            |              |  |   |             | 70       |          |          |          |          |          | L.             |          |
| 2     |  | ÷                 | 1         |          |              |  |            |              |  |   |             | 71       |          |          |          |          |          |                | L        |
| 2     |  | ÷                 | T         | Ī        |              |  |            |              |  |   |             | 72       |          |          |          |          |          | _              | L        |
| 2     |  | ÷                 |           |          |              |  |            |              |  |   |             | 73       |          |          |          |          |          |                | L        |
| 2     |  | ÷                 |           |          |              |  |            |              |  |   | L           | 74       |          | _        |          |          | L-       | <u> </u>       | L        |
| 2     |  | ÷                 |           | L        | _            |  |            | <u> </u>     | _  |   | <u> </u>    | 75       |          | _        |          | ,        | <u> </u> | _              | -        |
| 2     |  | ÷                 |           | _        | L.           | <u> </u>   | _          | ļ            |  | ļ |             | 76       |          | _        |          |          | ⊢        |                | ⊢        |
| 2     |  | ÷                 |           | <u> </u> | <u> </u>     |  | L          |              |  |   | ļ           | 77       |          | $\dashv$ |          | _        |          |                | ╀        |
| 2     |  | ÷                 | +         | <u> </u> | <u> </u>     | <u> </u>   | _          |              | <u> </u>   |   |             | 78       | -+       | -        | _        |          | ⊢        | ├              | ⊢        |
| 2     |  | ÷                 | -         | -        | -            | ┝  |            | -            | _  |   | }           | 79<br>80 | $\dashv$ | -+       |          | _        | -        | <del> </del> - | H        |
| 3     |  | ÷                 | -         | -        | <del> </del> | -  | ├          | -            | -  |   |             | 81       | $\vdash$ | $\dashv$ | _        |          | $\vdash$ | ╁              | t        |
| 3     |  | +                 | +         | ⊢        | ┢            | <del> </del> —                                   | -          |              |  |   |             | 82       | $\vdash$ | -+       | _        | -        |          | _              | t        |
| 3     |  |                   | +-        | -        | ╁            | ┢  | ├          | <del> </del> | -  | ł | <del></del> | 83       |          | +        | _        | <u> </u> |          | <u> </u>       | t        |
|       | 4  | +                 |           | ╁╌       | ┼            | ╁╌   | ┢┈         | ┢            | ┝  | ł |             | 84       |          | _        |          |          | _        | Г              | T        |
|       | 5  | +                 | +         | $\vdash$ |              | <del>                                     </del> |            |              | $\vdash$   | 1 |             | 85       |          |          |          |          |          | 1              | Γ        |
|       | 6  |                   | +         | 1        | -            | $\vdash$   | $\vdash$   | $\vdash$     | <del>                                     </del> |   | <u> </u>    | 86       |          |          |          |          |          |                | I        |
| 3     |  | +                 | †-        | 1        | 1            | 1  | Г          | Γ            | Г  | 1 |             | 87       |          |          |          |          |          |                | Ĺ        |
|       | 18   | $\top$            | 1         | T        |              |  |            |              |  |   |             | 88       |          | $\Box$   | _        |          |          | _              | L        |
|       | 9  | _                 |           | L        |              |  |            |              |  |   |             | 89       |          | _        |          | <u>L</u> | <u> </u> | <u> </u>       | L        |
|       | Ю  |                   |           |          |              |  |            |              |  |   |             | 90       |          | _        |          | _        | _        | ļ              | 1        |
| 4     |  |                   | L         | L        | L            |  | L          |              |  |   |             | 91       |          | _        |          | L        | ļ        | _              | <u> </u> |
|       | 2  |                   |           | <u> </u> | <u> </u>     | <u> </u>   | L          | ļ            |  |   |             | 92       |          | _        |          | <u> </u> | ⊢        | 1              | ╁        |
|       | 13   | $\perp$           | _         | 1_       | 1            | 1_   | ┖          | <u> </u>     | <u> </u>   | - |             | 93       | $\vdash$ | -        | _        | -        | -        | ┼              | +        |
|       | 14   | _                 | $\perp$   | -        | 1_           | ↓_   | _          | 4-           | -  | 1 | <u> </u>    | 94       | -        | -        |          | -        | +-       | +              | ╁        |
|       | 15   | _ _               | +         | +        | $\vdash$     | $\vdash$   | -          | -            | -  | - | <u> </u>    | 95       | ⊢⊦       | $\dashv$ | _        | $\vdash$ | $\vdash$ | +              | +        |
|       | 16   | $\perp$           | - -       | +-       | 1-           | $\vdash$   | 1          | <b>├</b>     | -  | 1 | -           | 96<br>97 |          | -+       |          | -        | -        | +              | +        |
|       | 17   | +                 | +-        | +        | $\vdash$     | <del> </del>                                     | $\vdash$   | +            | <del> </del>                                     | 1 | <u> </u>    | 98       | $\vdash$ |          |          | $\vdash$ | +        | +              | +        |
|       | 18   | +                 | +         | +        | +-           | ╁  | $\vdash$   | +-           | +  | 1 | <u> </u>    | 99       | $\vdash$ |          |          | $\vdash$ | T        | +-             | t        |
|       | 19<br>50                                     | +                 | +-        | +        | +            | +  | +-         | +-           | $\vdash$   | 1 |             | 100      | $\vdash$ | $\dashv$ | _        | T        | 1        | ╁              | 1        |
| 13    | <u>,                                    </u> |                   |           | _L       | J            |  | . <u>i</u> | 1            | 1  | J | <u> </u>    | 1.00     |          |          |          |          | -        | -              | -        |

| Claim        |                |            |  |  |  | ate  | !        |                |          | $\neg$   |
|--------------|----------------|------------|--|--|--|--|----------|----------------|----------|--|
|              |                |            |  | Т  | Ť  | T  | T        | Т              | T        |  |
| <u>ā</u>     | M Original     |            | -  |  |  |  |          |                |          |  |
| Final        | Jri.           |            |  |  |  |  |          |                |          | ļ  |
|              | 0              |            | _  | _  | _  | _  | _        | _              | _        |  |
|              | 51<br>52<br>53 | 丁          |  |  | ╛  |  | $\Box$   |                | $\Box$   |  |
|              | 52             | $_{\perp}$ |  | $\Box$   |  | $\Box$   | $\Box$   | $\Box$         | $\perp$  |  |
|              | 53             | $\bot$     |  | [  |  | $\Box$   | $\perp$  | _              | 4        | _  |
|              | 54<br>55       | $\dashv$   |  |  |  |  | $\dashv$ | $\dashv$       | 4        | _  |
|              | 55             |            | _  | _  | _  | $\Box$   | _+       | _              |          |  |
|              | 56             | $\dashv$   | _  | $\dashv$   | -  | $\dashv$   |          |                | $\dashv$ |  |
|              | 57             | -+         | -  | $\dashv$   | _  | $\vdash$   |          |                | +        | $\dashv$   |
|              | 58             | $\dashv$   |  | $\dashv$   | _  | $\vdash$   | -        | $\dashv$       | $\dashv$ | $\dashv$   |
|              | 59<br>60       | $\dashv$   | $\dashv$   | $\vdash$   | -  |  | -        |                |          | -  |
|              | 61             |            | -  | $\vdash$   | _  | $\vdash$   | $\neg$   | $\dashv$       | $\dashv$ | -  |
|              | 62             | 十          | $\dashv$   | $\vdash$   |  | -  |          | $\neg \dagger$ | 7        | $\neg$   |
|              | 62<br>63       | $\dashv$   |  |  |  | $\Box$   | 7        |                |          |  |
|              | 64             | $\dashv$   |  | П  | _  |  |          |                |          |  |
|              | 64<br>65       | 寸          |  |  |  |  | コ        |                |          | _  |
|              | 66             | _1         |  |  |  |  |          |                |          |  |
|              | 67             |            |  |  |  |  |          |                |          |  |
|              | 68             |            |  |  |  | Ш  | $\Box$   |                |          |  |
|              | 69             | $\Box$     |  |  | Ĺ  | $\Box$   | Ш        |                | Щ        |  |
|              | 70             | _          | _  | L  | <u> </u>   | $\sqcup$   | _        | _              | Щ        |  |
| ļ            | 71             | _          |  | _  |  | Щ  | Ц        |                |          |  |
| <u> </u>     | 72<br>73       | $\Box$     |  | <u> </u>   | <u> </u>   | H  | Щ        |                | $\vdash$ |  |
| ļ            | /3             | $\sqcup$   |  | H  | <u> </u>   |  | $\vdash$ |                |          |  |
| <u> </u>     | 74             | Н          |  | <u> </u>   | $\vdash$   |  | H        | _              | Н        |  |
| <del> </del> | 75<br>76       | $\vdash$   |  | $\vdash$   | ļ—   | -  | -        | -              |          |  |
| <del> </del> | 77             |            |  |  |  | $\vdash$   | $\vdash$ | _              | $\vdash$ | -  |
|              | 77<br>78       |            |  | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | -        |                | П        |  |
|              | 79             |            | -  | $\vdash$   |  | $\vdash$   |          |                |          |  |
| -            | 80             |            |  | <u> </u>   | Г  | T  |          |                |          |  |
|              | 81             |            |  |  |  |  |          |                |          |  |
|              | 82             |            |  |  |  |  |          |                |          |  |
|              | 83             |            |  |  |  | L  | ĹĨ       |                |          | _  |
|              | 84             | ╚          |  | _  | _  | lacksquare                                       | <u> </u> |                | <u> </u> | $\vdash$   |
|              | 85             |            | _  | Ľ  | <u>L</u>   | <u> </u>   | <u> </u> | _              | $\vdash$ |  |
| <u> </u>     | 86             | Ш          | _  | <u> </u>   | <u> </u>   | -  | <u> </u> | -              | <u> </u> | -  |
| <u> </u>     | 87             | $\vdash$   | -  | -  | -  | ├-   | <u> </u> | $\vdash$       | _        |  |
| <u> </u>     | 88             | $\vdash$   | <u> </u>   | -  | -  | ╁  | -        |                |          | $\vdash$   |
| <u> </u>     | 89             | $\vdash$   | -  | $\vdash$   | -  | -  | -        | -              | $\vdash$ | -  |
| <u> </u>     | 90<br>91       |            | <del> </del>                                     | <del> </del>                                     | $\vdash$   | $\vdash$   | $\vdash$ | <del>  -</del> | -        | $\vdash$   |
| -            | 92             | -          | <del>                                     </del> | +-   | $\vdash$   | +  |          | $\vdash$       |          | <del>                                     </del> |
| <b> </b>     | 93             |            | $\vdash$   | $\vdash$   | $\vdash$   |  | Г        | _              | Г        | Г  |
|              | 94             |            |  | †  |  | 1  | -        | Г              | Γ        |  |
| -            | 95             | -          |  | <b>†</b>   |  | <del>                                     </del> | Г        |                |          |  |
|              | 96             | $\vdash$   | T  | Γ  | Γ  | Π  |          |                | Γ        | Γ  |
|              | 97             |            |  |  | Γ  | $L^{-}$  |          |                |          |  |
|              | 98             |            |  |  | $\Box$   | $\Box$   |          |                |          | 匚  |
|              | 99             | L          | L  | L  | Ĺ  | ļ  | L        | _              | <u> </u> | <u> </u>   |
|              | 100            | Г          |  |  | 1  | 1  | Ι -      |                |          | 1  |

| Cla      | aim               |              |              |              |          | ate            | —  |            |  |                 |
|----------|-------------------|--------------|--------------|--------------|----------|----------------|--|------------|--|-----------------|
|          |                   |              |              |              |          |                |  |            |  |                 |
| Final    | Original          |              |              |              |          |                |  |            |  |                 |
|          | 101               |              | _            |              |          |                |  |            |  |                 |
|          | 102               |              |              |              |          |                |  |            |  |                 |
|          | 103               |              |              |              |          |                |  |            |  |                 |
| L        | 104               |              |              |              |          |                |  |            |  |                 |
|          | 105<br>106        |              |              |              |          |                |  | _          |  |                 |
|          | 106               |              |              |              |          |                |  |            |  |                 |
|          | 107               |              |              |              |          |                |  |            |  |                 |
|          | 108               |              |              |              |          |                | <u> </u>   |            |  |                 |
|          | 109               |              |              | _            |          | <u> </u>       |  |            |  | $\vdash$        |
|          | 110               |              |              |              |          | -              | -  |            |  |                 |
| <u> </u> | 111               | Н            |              |              |          | -              | -  |            |  | $\vdash \dashv$ |
|          | 112               | $\vdash$     |              |              | -        | -              | -  |            | -  | $\vdash$        |
|          | 113<br>114        | $\vdash$     |              |              | H        | -              | $\vdash$   | _          |  | $\vdash \vdash$ |
| -        | 115               | $\vdash$     | -            | _            |          | -              | <del>                                     </del> | H          | -  | $\vdash \dashv$ |
|          | 116               | $\vdash$     | -            |              |          | <u> </u>       | $\vdash$   | H          | <del>                                     </del> | H               |
|          | 117               |              |              | Н            |          | -              | 1  |            |  | П               |
|          | 118               |              |              |              |          |                |  |            | -  |                 |
|          | 118<br>119        |              |              |              |          |                |  |            |  |                 |
|          | 120               |              |              |              |          | Г              |  |            |  |                 |
|          | 121               |              |              |              |          |                |  |            |  |                 |
|          | 122               |              |              |              |          |                | <u> </u>   |            |  |                 |
|          | 123<br>124<br>125 |              |              |              |          |                | <u> </u>   |            | <u> </u>   | <u> </u>        |
|          | 124               | L            |              | L            | _        | <u> </u>       | ļ  | <u>L</u> . | L  | _               |
|          | 125               |              |              | _            | L.       | ļ              | <u> </u>   |            | <u> </u>   | L               |
|          | 126<br>127        | _            | <u> </u>     | _            |          | Ļ_             | <u> </u>   | <u> </u>   | -  | <u> </u>        |
|          | 127               |              | <u> </u>     | <u> </u>     | ┝        | <u> </u>       | ├  | -          | -  |                 |
|          | 128               | _            | <u> </u>     | -            | ├-       | -              | ┢  | $\vdash$   | <del> </del>                                     | -               |
|          | 129               | -            | <u> </u>     | $\vdash$     | ├        | <del> </del> − | -  | $\vdash$   |  | ł.—             |
|          | 130               | <del> </del> | ├            |              | ├        | Н              | ╢  |            |  | ├-              |
|          | 131<br>132        | $\vdash$     | ┢            |              | -        | ┼              |  |            |  | ├               |
|          | 133               | <del> </del> | -            | ۲            |          | $\vdash$       | †  |            |  |                 |
|          | 134               | $\vdash$     | -            | 1            | T        | $\vdash$       | <b>†</b>   |            | Г  | 1               |
|          | 135               |              |              |              | 1        | T              |  |            |  | Г               |
| <u> </u> | 136               |              |              |              |          |                |  |            |  |                 |
|          | 137               | L            |              |              |          |                |  |            |  |                 |
|          | 138               |              |              |              |          |                |  | L          |  | $\Box$          |
|          | 139               |              | Ĺ            | L            | $\perp$  | <u> </u>       | _  | L          | L  | $\perp$         |
|          | 140               | <u> </u>     | L            | $oxed{oxed}$ | <u> </u> | $\perp$        | <u> </u>   | <u> </u>   | _  | <u> </u>        |
|          | 141               | <u> </u>     | L            | _            | _        |                | <u> </u>   | ļ          | _  | <del> </del>    |
|          | 142               | <u> </u>     | _            | <u> </u>     | L        | $\vdash$       | ↓_   |            | L  | -               |
| L        | 143               | 1            | <del> </del> | $\vdash$     | -        | $\vdash$       | +  | ▙          | <u> </u>   |                 |
|          | 144               | 1            | $\vdash$     | -            | -        | $\vdash$       | ╆  | <u> </u>   | -  | +-              |
| <u> </u> | 145               | 1-           | -            | $\vdash$     | +-       | $\vdash$       | -  | -          | $\vdash$   | <b>∤</b>        |
|          | 146               | +-           | $\vdash$     | +-           | ┼-       | ╀              | +  | $\vdash$   | $\vdash$   | $\vdash$        |
| -        | 147               | $\vdash$     | <b>├</b>     | $\vdash$     | $\vdash$ | +-             | $\vdash$   | -          | +-   | +               |
| <u> </u> | 148               | $\vdash$     | -            | ╁╌           | $\vdash$ | +              | +  | 1          | -  | ╁               |
| -        | 150               | +-           | $\vdash$     | +            | +-       | +-             | +-   | +          | ├-   | +               |
|          | 1100              | Ь.           | 1            | Ц.           |          |                | Ь.   | L.,        | 1  | 1               |